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[Claims]

1. Oral vaccine composition against enterotoxigenic *E.coli* caused diarrhea in humans, which comprises a defined amount of at least three different types of colonization factor antigens (CFAs) selected from the group consisting of CFA I, CFA II (CS 1, CS2 and CS3) and CFA IV (CS4, CS5 and CS6), on killed *E. coli* bacteria lacking the gene encoding the heat labile (LT) enterotoxin, together with a defined amount of the B-subunit of cholera toxin (CTB), and an vehicle, which vaccine composition is purified from possible heat stable enterotoxin (ST).

2. Oral vaccine according to claim 1, wherein the defined amount of different types of CFAs is for each type of CFA at least 100 µg, and the defined amount of CTB is at least 0.5 mg, and the vehicle is a physiologically acceptable buffer solution.

3. Oral vaccine according to claim 2, wherein the defined amount of different types of CFAs is for each type of CFA 100 to 300 µg, and the defined amount of CTB is 0.5 to 2.0 mg.

4. Oral vaccine according to claim 3, wherein the defined amount of different types of CFAs are 200 µg of CFA/I, 200 µg of CS1, 150 µg of CS2, 200 µg of CS4 and 150 µg of CS5, and 1.0 mg of CTB, and the physiologically acceptable buffer solution is phosphate buffered saline solution.